Interior Department Innovations in Conservation Delivery

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A few modest challenges

- Climate change
- Land use and habitat change
- Invasive species
- Wildfire
- Species conservation
- Energy development (renewable and conventional)
- Multiple competing demands (including that of "change")





Lessons and Goals

- Operate at landscape scale (put local into context)
- Operate across jurisdictions
- Integrate multiple uses / demands
- Ensure tight linkages between science and management
- Facilitate adaptive management
- Get ahead of the curve
- Partners are key





- NPS / FWS Inventory and Monitoring Program
- Rapid Ecological Assessments Bureau of Land Management + partners
- Landscape Conservation Cooperatives All DOI bureaus + partners
- Climate Science Centers ALL DOI bureaus (USGS lead) + partners







BLM Rapid Ecoregional Assessments

Key purposes:

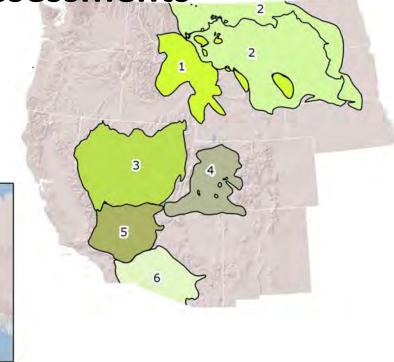
Synthesize existing information

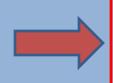
Identify potential areas for conservation and development

Project future trends from climate change, fire, invasive species, development

Establish baseline ecological data to gauge change, management effectiveness







Create direct links to management and decision making







Fundamentals

- Consistent approach
- Rapid: approximately 18 months
- Use only AVAILABLE information
- Seek interagency participation
- First REAs completed in 2012

- Common management questions, change agents, conceptual models
- Appropriate peer review
- Opportunity for public involvement





Field Implementation



Making it real through:

- Land Use Planning
- Use authorization/BMPs
- Land tenure adjustments
- On-the-ground projects
- Sub-assessments and monitoring
- Budget Process
 - How to focus and share resources







Key REA Partnering Opportunities

Initiation	Phase I	Phase II
 Participate on assessment management or technical team Define preliminary management questions Identify common landscape issues Prepare assessment work plan 	 Refine management questions Suggest conservation elements Suggest change agents Recommend potential data sets Recommend methods and models 	Provide available data
	Provide technical reviewParticipate in peer review	/



Rapid Ecoregional Assessments

LCC Boundaries

BLM Lands

2010 - Initiated

2011 - Proposed

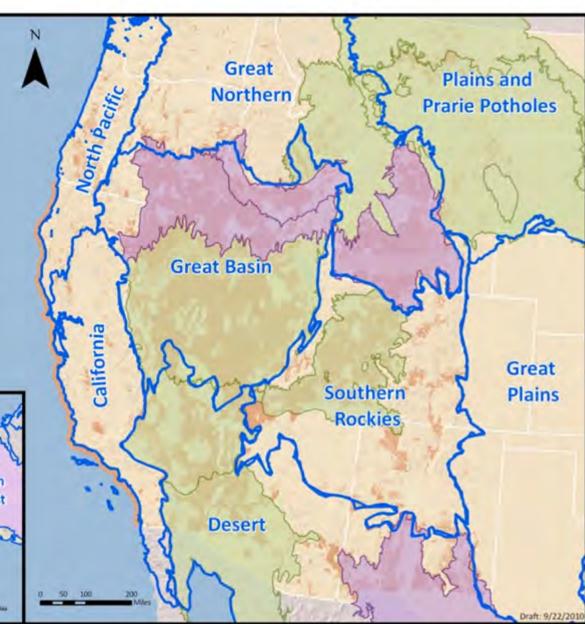
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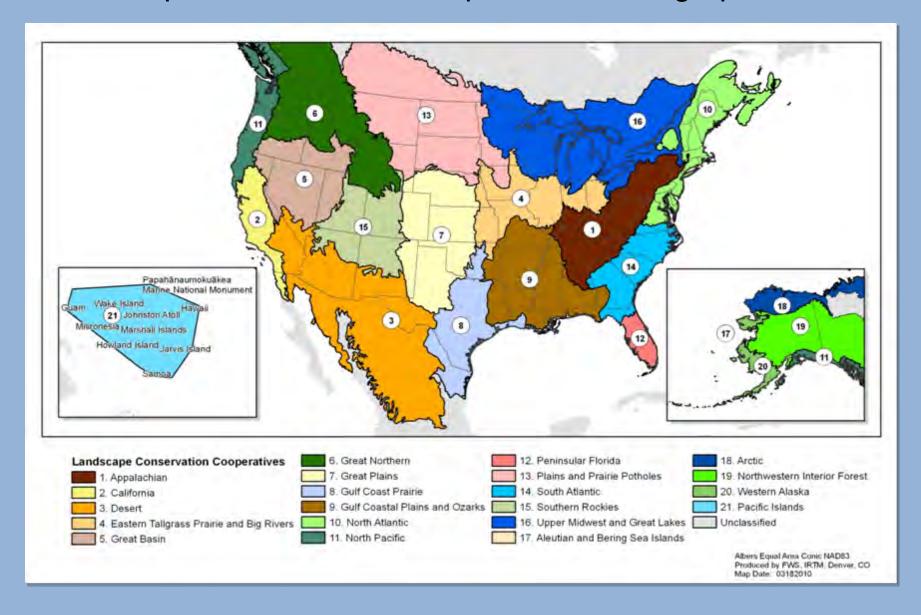
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Landscape Conservation Cooperatives: Geographic Areas



Landscape Conservation Cooperatives What are they?

Applied conservation science partnerships. Partners include federal and state agencies, Tribes, conservation organizations, and universities within a geographically defined area

<u>Fundamental units of planning and adaptive science</u> that inform conservation actions on the ground

A national and international network of land, water, wildlife and cultural resource managers and interested public and private organizations

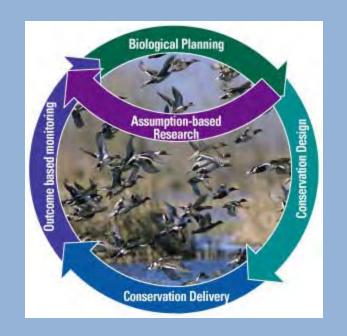




Landscape Conservation Cooperatives What do they do?



- Identify common goals and priorities
- Link science and conservation delivery
- Support biological planning, conservation design and adaptive management
- Evaluate the effectiveness of scientific information and conservation actions









Landscape Conservation Cooperatives Key Components

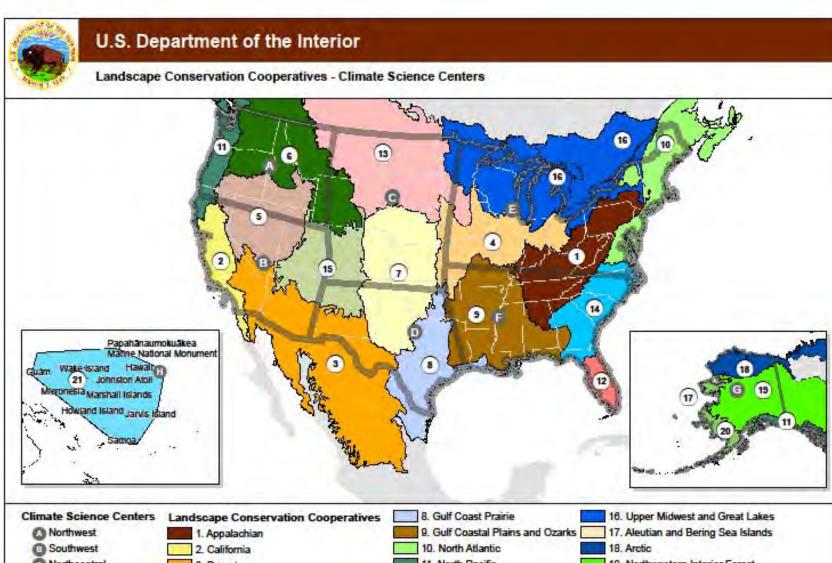
- A steering committee of partners
- LCC coordinator
- Planning and technical staff
- GIS capability and other scientific expertise
- Communications

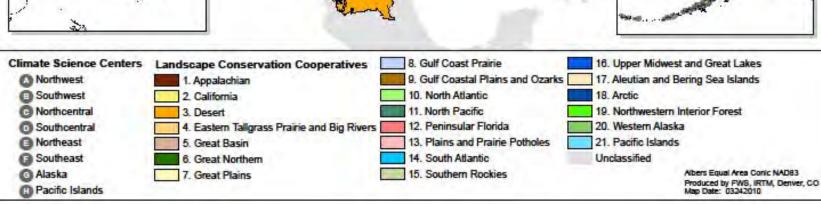


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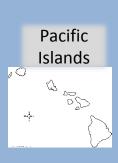


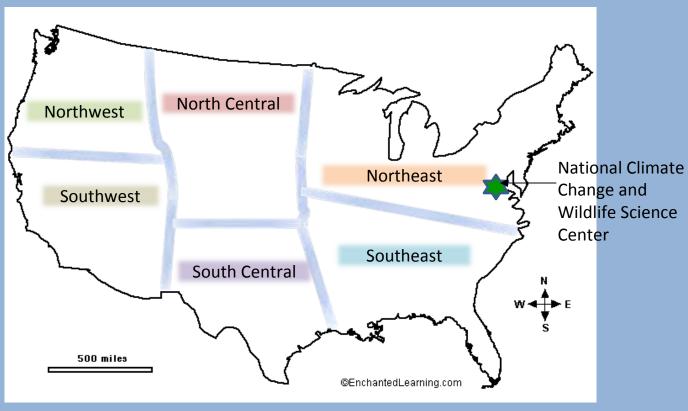




Climate Science Centers--Regions













DOI Climate Science Centers

Priority Science Activities:

- Integrate physical climate models with ecological, habitat, and population response models
- Develop models and forecast fish and wildlife population and habitat changes
- Develop methods and assess vulnerability of species and habitats
- Develop standardized approaches to modeling and monitoring





DOI Climate Science Centers

- Government university partnership
- Driven by science needs identified by LCCs and other managers
- "Co-development" of science
- Three funded and being implemented (NW, SE, AK)
- Two identified by awaiting FY 11 budget (SW, North Central)

Three to be established in FY 12 (NE, South Central, Pacific

Islands)

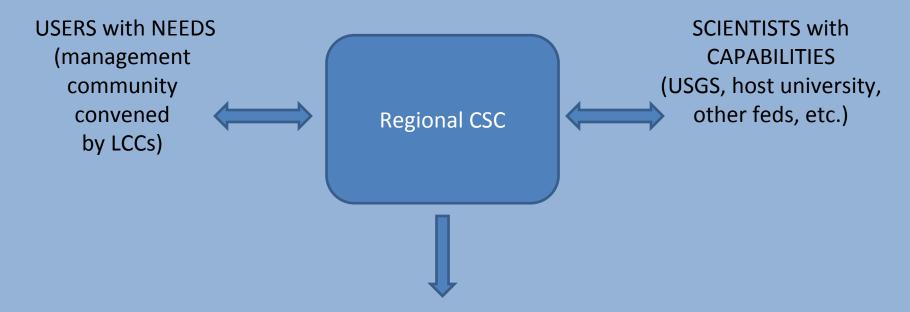
 \$3-4 million per center per year (at full operational scale)



Climate Science Centers

Potentially most valuable role?

Convener of the parties



Regional Science Agenda





A new model

- Landscape scale by design
- Collaborative priority setting
- Strong management linkages
- Translational science
- Collaborative science planning
- Nimble design, flexible resources
- Collaboration is an assigned task





